

**SECTION 071326**  
**GUIDELINE SPECIFICATION FOR SELF-ADHERING SHEET**  
**WATERPROOFING**  
**AUSSIE MATE 580-AL/582-AL/585-CW**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Installation of sheet membrane waterproofing
- B. Surface preparation

**1.02 RELATED SECTIONS**

- A. Other specification Sections which directly relate to the work of this section include, but are not limited to, the following:
  - 1. Division 2: Subsurface and Geotechnical Investigations
  - 2. Division 3: Waterstops
  - 3. Division 3: Expansion Joint Products
  - 4. Division 7: Joint Treatment/ Sealants, Flashing and sheet metal, and Insulation
  - 5. Division 22: Mechanical Penetrations
  - 6. Division 26: Conduit and other Electrical Penetrations
  - 7. Division 31: Earthwork, Excavation and Fill
  - 8. Division 33: Geocomposite Foundation Drainage

**1.03 SYSTEM DESCRIPTION**

- A. Provide a waterproofing and drainage composite system to prevent the passage of liquid water under hydrostatic pressure and install without defects, damage or failure. Waterproofing shall be self-adhered membrane system of not less than 60-mils (1.5 mm) thickness, consisting of rubberized asphalt layer laminated to a 4-mil aluminum backing.

**1.04 SUBMITTALS**

- A. General: Prepare and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections.
- B. Product Data: Submit manufacturer's product data, with complete general and specific installation instructions, recommendations, and limitations.
- C. Product Samples: Submit representative samples of the following for approval:
  - 1. Sheet Membrane
  - 2. Prefabricated drainage composites and perimeter drainage
  - 3. Sample Warranty
  - 4. Manufacturer Approved Applicator certificate

**1.05 QUALITY ASSURANCE**

- A. Installer Qualifications: Installing company should have at least three (3) years experience in work of the type required by this section, who can comply with manufacturer's warranty requirements, and who is an Approved Applicator as determined by waterproofing/drainage system manufacturer.
- B. Manufacturer Qualifications: Sheet membrane waterproofing system shall be provided by a firm with a minimum of 20 years experience in the production and sales of waterproofing systems. The manufacturer shall be capable of providing field service representation during construction, approving an acceptable installer, and recommending appropriate installation methods, and conducting a final inspection of the waterproofing and drainage system assembly.
- C. Pre-Installation Conference: A pre-installation conference shall be held before the commencement of field installation to establish procedures to maintain required working conditions and to coordinate this work with related and adjacent work. Verify that final waterproofing and waterstop details comply with waterproofing manufacturer's current installation requirements and recommendations. Pre-installation meeting attendees should include representatives for the owner, architect, inspection firm, general contractor, waterproofing contractor, concrete contractor, excavating/backfill contractor, and mechanical and electrical contractors if work penetrates the waterproofing.
- D. Materials: Obtain waterproofing and prefabricated drainage materials from a single manufacturer to assure material compatibility.

#### 1.06 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in labeled packages. Store and handle in strict compliance with the manufacturer's instructions. Protect from damage from weather, excessive temperature and construction operations. Remove and dispose of damaged material in accordance with applicable regulations at no additional cost to the Owner

#### 1.07 PROJECT CONDITIONS

- A. Weather Conditions: Perform work only when existing and forecasted weather conditions are within the guidelines established by the manufacturer of the waterproofing materials. Do not proceed with waterproofing installation when ambient or substrate temperature is below 50° F. Do not apply waterproofing materials to a damp, wet, frozen or contaminated surface. For temperatures, 25° F to 50° F use Aussie Mate 585-CW, cold weather membrane.
- B. Coordinate waterproofing work with other trades. The applicator shall have the sole right of access to the specified areas for the time needed to complete the installation.
- C. Warn personnel against breathing vapors and contact of the material with skin or eyes. Wear applicable protective clothing and respiratory protection gear.
- D. Keep flammable products away from spark or flame. Do not allow the use of spark-producing equipment during application and until all vapors have dissipated

#### 1.08 WARRANTY

- A. Provide a 5-year material warranty issued by the membrane manufacturer upon completion of work. All AVM components of the finished system shall be included in the waterproofing warranty.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURER

- A. Provide AVM Aussie Mate self-adhering sheet waterproofing 580-AL/582-AL/585-CW (Cold Weather) and prefabricated drainage composite as manufactured by AVM Industries, Inc., 8245 Remmet Ave, Canoga Park, CA 91304, USA. Phone: (818)888-0050; Web-site: <http://www.avmindustries.com>

### 2.02 PRODUCTS

- A. Waterproofing Membrane: Provide AVM Aussie Mate self-adhering waterproofing membrane consisting of 56-mil (1.4 mm) thick rubberized asphalt layer integrally bonded to a 4-mil (0.1 mm) aluminum backing.

#### PERFORMANCE PROPERTIES:

1. UV Resistance: up to 180 Days
2. Tensile Strength: 171/239 N/50mm
3. Tear Strength:  $\geq 12$  N
4. Heat Resistance: 158° F
5. Low Temperature Flexibility at 5° : No Cracking
6. Water Permeability: 0.3 Mpa for 2 hours
7. Peel Strength between membrane and concrete: 2.1 N/mm

- A. For applications below 25° and 50° F, use Aussie Mate 585-CW, cold weather membrane

### 3. ACCESSORY WATERPROOFING PRODUCTS:

- A. Primer 500- Water based primer for Aussie Mate 580-AL/582-AL
- B. Adhesive 501- Solvent based adhesive for Aussie Mate 580-AL/582-AL/585-CW
- C. Adhesive 585- Solvent based adhesive for Aussie Mate 585-CW
- D. Aussie Seal M - Marine grade sealant
- E. Termination Bar: Min. 1" (25mm) wide aluminum bar with pre-punched holes on 12" (300mm) centering for fasteners
- F. Protection Course: Approved material by the manufacturer
- G. Drainage Composite: Shall be AVM Drainboard

## PART 3 - EXECUTION

### 3.01 SUBSTRATE INSPECTION AND CONDITIONS

- A. Installer and inspection firm shall examine surfaces to receive self-adhering membrane. Notify the general contractor if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected

### 3.02 SURFACE PREPARATION

- A. Refer to manufacturer's literature for requirements for preparation of substrates. Surfaces shall be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Remove dirt, debris, oil, grease, cement laitance, or other foreign matter which will impair or negatively affect the adhesion or performance of the waterproofing and drainage system.
- B. Patch all holes and voids and smooth any surface misalignments
- C. Do not proceed with installation until the concrete has properly cured and dried for a minimum 7 days for normal structural concrete

### 3. GENERAL INSTALLATION GUIDELINES

- A. Refer to manufacturer's published for recommended installation procedures, including but not limited to the following:
  - a. Apply primer or adhesive at the manufacturer's recommended coverage rate
  - b. Remove the release liner and install the rubberized asphalt side to the structural substrate. Roll membrane in place using firm pressure with a hand roller. Ensure that all membrane laps are firmly adhered and that there are no gaps or fish mouths.
  - c. Inside and outside corners should be treated with a minimum 6" wide strip of the membrane before the field sheet is installed. All inside corners should be pre-treated with a 3/4" (18 mm) fillet of Aussie Seal M or 2" concrete cant before 6" strip is installed
  - d. Penetrations: Apply Aussie Mate membrane tight against penetration. Apply 3/4" (18 mm) fillet of Aussie Seal M around base of penetration and extending a minimum 2" on membrane and penetration substrate. See manufacturer details for further clarification.
  - e. Install drainboard 6000 drainage composite after waterproofing system installation.
  - f. Footing-to-Wall Transition: Install a 3/4" (18 mm) fillet of Aussie Seal M at the horizontal to vertical inside corner. Then trowel a 9" (230 mm) wide, 90-mil (2.3 mm) thick coat of Aussie Seal M centered over corner transition.

End of Section